

HIGH DYNAMIC RECEIVER FOR FREE SPACE OPTICS APPLICATION  
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**Abstract**

High dynamic receiver for free space optics applications

A receiver for an optics telecommunication system, the receiver comprises a first receiving device and means for focusing a received light beam carrying a signal towards such first receiving device. The receiver is characterized in that it further comprises at least a second receiving device and a beam splitter for splitting the focused light beam partially towards the first receiving device and partially towards the at least second receiving device. Typically, the first receiver device is an APD diode while the second receiver device is a PIN diode. The telecommunication system is a Free Space Optics telecommunication system.

5 A method is also described. The invention results in a high dynamic receiver.

10 The dynamic of the invention receiver could be up to the sum of the dynamics of receivers provided with single receiving device (APD or PIN).